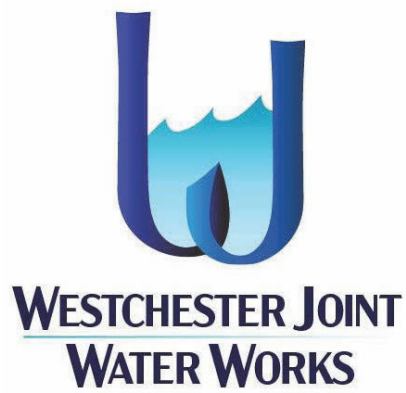
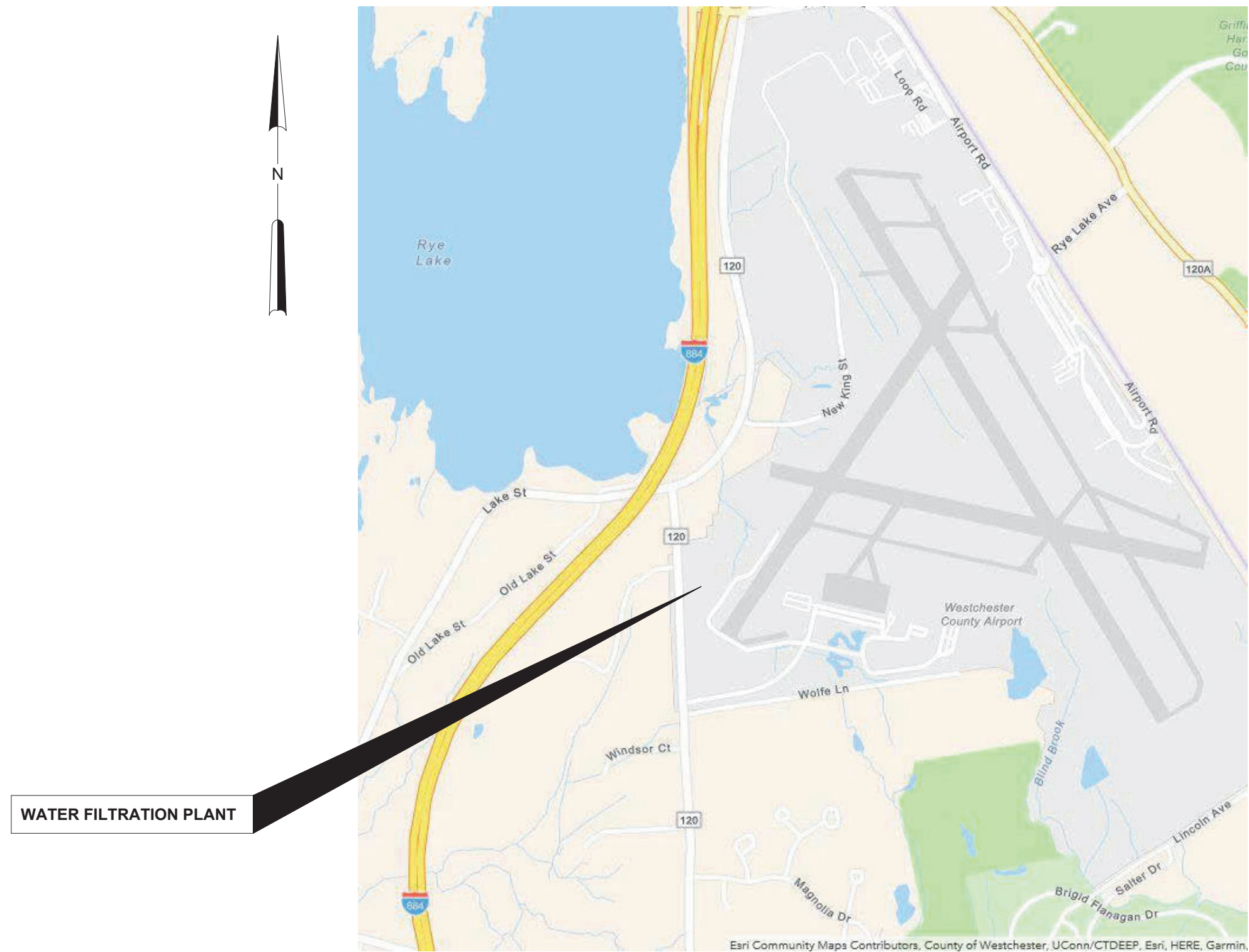


WESTCHESTER JOINT WATER WORKS
MAMARONECK, NEW YORK



A1364-A: RYE LAKE WATER FILTRATION PLANT
30 MGD
HARRISON, NY
BID SET
FEBRUARY 2025



LOCATION PLAN

NOT TO SCALE

Hazen

HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WARNING
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Autodesk Docs\\00388-000_Rye_Lake_Filtration\\00388-000-GENL.rvt
2/26/2025 9:53:51 AM

NO.	DWG	TITLE	INCLUDED
GENERAL			
1	G-001	COVER	X
2	G-002	DRAWING INDEX - SHEET 1	X
3	G-003	DRAWING INDEX - SHEET 2	X
4	G-004	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X
5	G-005	GENERAL AREA DESIGNATION TABLES	X
6	G-010	HYDRAULIC PROFILE	X
7	G-011	PROCESS FLOW SCHEMATIC	X
8	G-100	GENERAL ARRANGEMENT PLAN EL 384.00	X
9	G-101	GENERAL ARRANGEMENT PLAN EL 407.00	X
10	G-102	GENERAL ARRANGEMENT PLAN EL 421.00	X
11	G-103	GENERAL ARRANGEMENT PLAN ROOF	X
DEMOLITION			
12	D-500	EXISTING RYE LAKE CHEMICAL BUILDING DEMOLITION PLAN BELOW EL 358.50'	X
13	D-501	EXISTING RYE LAKE CHEMICAL BUILDING DEMOLITION PLAN EL 358.50	X
CIVIL			
14	C-001	GENERAL NOTES, LEGEND AND ABBREVIATIONS	X
15	C-101	OVERALL SITE PLAN	X
16	C-102	EXISTING CONDITIONS AND DEMOLITION PLAN -AREA 1	X
17	C-103	EXISTING CONDITIONS AND DEMOLITION PLAN -AREA 2	X
18	C-111	EROSION AND SEDIMENT CONTROL PHASING PLAN - PHASE I	X
19	C-112	EROSION AND SEDIMENT CONTROL PHASING PLAN - PHASE II	X
20	C-113	EROSION AND SEDIMENT CONTROL PHASING PLAN - PHASE III	X
21	C-114	EROSION AND SEDIMENT CONTROL PHASING PLAN - PHASE IV	X
22	C-115	EROSION AND SEDIMENT CONTROL PHASING PLAN - PHASE V	X
23	C-121	GRADING AND DRAINAGE PLAN - AREA 1	X
24	C-122	GRADING AND DRAINAGE PLAN - AREA 2	X
25	C-131	YARD PIPING PLAN - AREA 1	X
26	C-132	YARD PIPING PLAN - AREA 2	X
27	C-141	FINAL SITE PLAN - AREA 1	X
28	C-142	FINAL SITE PLAN - AREA 2	X
29	C-151	STAKING PLAN - AREA 1	X
30	C-152	STAKING PLAN - AREA 2	X
31	C-153	STAKING TABLES	X
32	C-201	PLANT ACCESS DRIVEWAY PLAN AND PROFILE	X
33	C-202	PLANT ACCESS ROAD PLAN AND PROFILE - STA 10+00 TO STA 14+50	X
34	C-203	PLANT ACCESS ROAD PLAN AND PROFILE - STA 14+50 TO STA 20+20	X
35	C-204	VEGETATED ACCESS ROAD PLAN AND PROFILE -SHEET 1 OF 2	X
36	C-205	VEGETATED ACCESS ROAD PLAN AND PROFILE -SHEET 2 OF 2	X
37	C-206	ROADWAY DETAILS	X
38	C-211	STORMWATER MANAGEMENT PLAN	X
39	C-212	STORMWATER MANAGEMENT CROSS SECTIONS	X
40	C-213	STORMWATER DRAINAGE PROFILES -SHEET 1 OF 3	X
41	C-214	STORMWATER DRAINAGE PROFILES -SHEET 2 OF 3	X
42	C-215	STORMWATER DRAINAGE PROFILES -SHEET 3 OF 3	X
43	C-216	STORMWATER DETAILS - SHEET 1 OF 6	X
44	C-217	STORMWATER DETAILS - SHEET 2 OF 6	X
45	C-218	STORMWATER DETAILS - SHEET 3 OF 6	X
46	C-219	STORMWATER DETAILS - SHEET 4 OF 6	X
47	C-220	STORMWATER DETAILS - SHEET 5 OF 6	X
48	C-221	STORMWATER DETAILS - SHEET 6 OF 6	X
49	C-231	SANITARY DRAIN PLAN AND PROFILE	X
50	C-232	SANITARY FM - STA 0+00 TO STA 5+00	X
51	C-233	SANITARY FM - STA 5+00 TO STA 9+29	X
52	C-234	SANITARY AND STORM DRAIN DETAILS	X
53	C-241	RAW WATER TRANSMISSION MAIN PLAN AND PROFILE	X
54	C-242	FINISHED WATER TRANSMISSION MAIN PLAN AND PROFILE - SHEET 1 OF 2	X
55	C-243	FINISHED WATER TRANSMISSION MAIN PLAN AND PROFILE - SHEET 2 OF 2	X

56	C-244	WATER MAIN EXTENSION PROFILE	X
57	C-245	PW AND FP PROFILES	X
58	C-246	WWR AND FUD PROFILE	X
59	C-247	OVERFLOW PROFILE - SHEET 1 OF 2	X
60	C-248	OVERFLOW PROFILE - SHEET 2 OF 2	X
61	C-249	WWW PROFILE	X
62	C-250	GALLERY DRAIN PROFILE	X
63	C-251	YARD PIPING DETAILS - SHEET 1 OF 2	X
64	C-252	YARD PIPING DETAILS - SHEET 2 OF 2	X
65	C-301	EROSION AND SEDIMENT CONTROL NOTES	X
66	C-302	EROSION AND SEDIMENT CONTROL DETAILS	X
67	C-303	EROSION AND SEDIMENT CONTROL DETAILS	X
68	C-304	SITE DETAILS	X
69	C-305	TRUCK DELIVERY CONTAINMENT DETAIL	X
70	C-306	MAINTENANCE OF TRAFFIC DETAIL	X
71	L-101	PLAN - SHEET 1	X
72	L-102	PLAN - SHEET 2	X
73	L-301	SCHEDULE	X
74	L-302	DETAILS	X
ARCHITECTURAL			
75	A-001	STANDARD NOTES, SYMBOLS AND ABBREVIATIONS	X
76	A-002	CODE COMPLIANCE SUMMARY 1 OF 3	X
77	A-003	CODE COMPLIANCE SUMMARY 2 OF 3	X
78	A-004	CODE COMPLIANCE SUMMARY 3 OF 3	X
79	A-005	NOTES -SHEET 1 of 2	X
80	A-006	NOTES -SHEET 2 of 2	X
81	A-101	BASEMENT PLAN EL 383.00	X
82	A-102	FIRST FLOOR PLAN EL 407.00	X
83	A-103	SECOND FLOOR PLAN EL 421.00	X
84	A-104	ROOF PLAN	X
85	A-201	EXTERIOR ELEVATIONS -SHEET 1 OF 2	X
86	A-202	EXTERIOR ELEVATIONS -SHEET 2 OF 2	X
87	A-203	BUILDING SECTIONS -SHEET 1 OF 4	X
88	A-204	BUILDING SECTIONS -SHEET 2 OF 4	X
89	A-205	BUILDING SECTIONS -SHEET 3 OF 4	X
90	A-206	BUILDING SECTIONS -SHEET 4 OF 4	X
91	A-207	WALL SECTION & DETAILS -SHEET 1 OF 3	X
92	A-208	WALL SECTION & DETAILS -SHEET 2 OF 3	X
93	A-209	WALL SECTION & DETAILS -SHEET 3 OF 3	X
94	A-301	FIRST FLOOR -ENLARGED PLAN AND RCP	X
95	A-302	FIRST FLOOR -INTERIOR ELEVATIONS	X
96	A-303	SECOND FLOOR -ENLARGED PLAN AND RCP	X
97	A-304	SECOND FLOOR -INTERIOR ELEVATIONS	X
98	A-305	PROCESS ANALYSIS AND CONTROL ROOM - ENLARGED PLANS AND RCP	X
99	A-306	PROCESS ANALYSIS AND CONTROL ROOM - INTERIOR ELEVATIONS	X
100	A-307	ELEVATOR PLANS, SECTION AND DETAILS	X
101	A-308	STAIR PLANS, SECTIONS AND DETAILS - SHEET 1 OF 2	X
102	A-309	STAIR PLANS, SECTIONS AND DETAILS - SHEET 2 OF 2	X
103	A-401	STAIR AND RAILING DETAILS	X
104	A-402	PLAN DETAILS	X
105	A-403	ROOF DETAILS -SHEET 1 OF 2	X
106	A-404	ROOF DETAILS -SHEET 2 OF 2	X
107	A-501	SITE ENTRANCE PLAN AND DETAILS	X
108	A-601	PARTITION TYPES AND DETAILS	X
109	A-602	WINDOW SCHEDULE AND DETAILS	X
110	A-603	DOOR SCHEDULE AND DETAILS	X
111	A-604	FINISH, IDENTIFYING DEVICES AND LOUVER SCHEDULES AND DETAILS	X
112	A-605	IDENTIFYING DEVICES	X
113	A-606	FIRESTOPPING DETAILS	X
STRUCTURAL			
114	S-001	GENERAL NOTES	X
115	S-002	LOAD DIAGRAMS	X
116	S-100	SOIL TIEDOWN PLAN AREA 1, 2, AND 3	X

117	S-101	SOIL TIEDOWN PLAN AREA 4 AND 5	X
118	S-102	PLAN AT EL 374.08 - AREA 4 AND 5	X
119	S-103	PLAN AT EL 383.00 - AREA 1	X
120	S-104	PLAN AT EL 383.00 - AREA 2	X
121	S-105	PLAN AT EL 383.00 - AREA 3	X
122	S-106	PLAN AT EL 398.83 - AREA 1 AND 4	X
123	S-107	PLAN AT EL 398.83 - AREA 2 AND 5	X
124	S-108	PLAN AT EL 407.00 - AREA 1	X
125	S-109	PLAN AT EL 407.00 - AREA 2	X
126	S-110	PLAN AT EL 407.00 - AREA 3 AND FLOOR SLOPE PLAN AT EL 407.00 - AREA 1 AND 2	X
127	S-111	PLAN AT EL 407.00 - AREA 4	X
128	S-112	PLAN AT EL 407.00 - AREA 5	X
129	S-113	PLAN AT EL 407.00 - AREA 6 AND CLASS A6 CONCRETE LOCATION PLAN AT EL 407.00	X
130	S-114	PLAN AT EL 421.00 - AREA 1	X
131	S-115	PLAN AT EL 421.00 - AREA 2	X
132	S-116	PLAN AT EL 421.00 - AREA 3	X
133	S-117	PLAN AT EL 421.00 - AREA 4	X
134	S-118	PLAN AT EL 421.00 - AREA 5	X
135	S-119	PLAN AT EL 421.00 - AREA 6	X
136	S-120	FLAT ROOF FRAMING PLAN - AREA 1	X
137	S-121	FLAT ROOF FRAMING PLAN - AREA 2	X
138	S-122	FLAT ROOF FRAMING PLANS - AREA 4 AND TOP OF STEEL 439.67	X
139	S-123	SHED ROOF FRAMING PLAN - AREA 5	X
140	S-124	GABLE ROOF FRAMING PLAN - AREA 3	X
141	S-125	ROOF FRAMING PLANS - AREA 6	X
142	S-126	PLANS	X
143	S-200	SECTIONS - SHEET 1	X
144	S-201	SECTIONS - SHEET 2	X
145	S-202	SECTIONS - SHEET 3	X
146	S-203	SECTIONS - SHEET 4	X
147	S-204	SECTIONS - SHEET 5	X
148	S-205	SECTIONS - SHEET 6	X
149	S-206	SECTIONS - SHEET 7	X
150	S-207	SECTIONS - SHEET 8	X
151	S-208	SECTIONS - SHEET 9	X
152	S-209	SECTIONS - SHEET 10	X
153	S-210	SECTIONS - SHEET 11	X
154	S-211	SECTIONS - SHEET 12	X
155	S-212	SECTIONS - SHEET 13	X
156	S-213	SECTIONS - SHEET 14	X
157	S-214	SECTIONS - SHEET 15	X
158	S-215	SECTIONS - SHEET 16	X
159	S-216	SECTIONS - SHEET 17	X
160	S-217	SECTIONS - SHEET 18	X
161	S-218	FRAMING ELEVATIONS - SHEET 1	X
162	S-219	FRAMING ELEVATIONS - SHEET 2	X
163	S-220	FRAMING ELEVATIONS - SHEET 3	X
164	S-221	FRAMING ELEVATIONS - SHEET 4	X
165	S-222	FRAMING ELEVATIONS - SHEET 5	X
166	S-223	FRAMING ELEVATIONS - SHEET 6	X
167	S-224	FRAMING ELEVATIONS - SHEET 7	X
168	S-300	BEAM SCHEDULE AND DETAILS	X
169	S-301	DETAILS - SHEET 1	X
170	S-302	DETAILS - SHEET 2	X
171	S-303	DETAILS - SHEET 3	X
172	S-304	DETAILS - SHEET 4	X
173	S-305	DETAILS - SHEET 5	X
174	S-306	DETAILS - SHEET 6	X
175	S-307	DETAILS - SHEET 7	X
176	S-510	PLANS AND SECTIONS	X
177	S-600	STANDARD DETAILS SHEET 1	X
178	S-601	STANDARD DETAILS SHEET 2	X
179	S-602	STANDARD DETAILS SHEET 3	X
180	S-603	STANDARD DETAILS SHEET 4	X
181	S-604	STANDARD DETAILS SHEET 5	X
182	S-605	STANDARD DETAILS SHEET 6	X

183	S-606	STANDARD DETAILS SHEET 7	X
184	S-607	STANDARD DETAILS SHEET 8	X
MECHANICAL			
185	M-001	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X
186	M-101	PARTIAL PLAN AT EL 383.00 - AREA 1	X
187	M-102	PARTIAL PLAN AT EL 383.00 - AREA 2 & 3	X
188	M-103	PARTIAL PLAN AT EL 398.00 - AREA 1	X
189	M-104	PARTIAL PLAN AT EL 398.00 - AREA 2 & 3	X
190	M-105	PARTIAL PLAN AT EL 407.00 - AREA 1	X
191	M-106	PARTIAL PLAN AT EL 407.00 - AREA 2	X
192	M-107	PARTIAL PLAN AT EL 407.00 - AREA 3	X
193	M-108	PARTIAL PLAN AT EL 407.00 - AREA 4	X
194	M-109	PARTIAL PLAN AT EL 407.00 - AREA 5	X
195	M-110	PARTIAL PLAN AT EL 421.00 - AREA 1	X
196	M-111	PARTIAL PLAN AT EL 421.00 - AREA 2	X
197	M-112	PARTIAL PLAN AT EL 421.00 - AREA 3	X
198	M-113	PARTIAL PLAN AT EL 421.00 - AREA 4	X
199	M-114	PARTIAL PLAN AT EL 421.00 - AREA 5	X
200	M-201	SECTIONS - SHEET 1	X
201	M-202	SECTIONS - SHEET 2	X
202	M-203	SECTIONS - SHEET 3	X
203	M-204	SECTIONS - SHEET 4	X
204	M-205	SECTIONS - SHEET 5	X
205	M-206	SECTIONS - SHEET 6	X
206	M-207	SECTIONS - SHEET 7	X
207	M-501	PLANS	X
208	M-502	SECTIONS	X
209	M-503	PLANS	X
210	M-504	SECTIONS	X
211	M-601	DETAILS - SHEET 1	X
212	M-602	DETAILS - SHEET 2	X
213	M-603	DETAILS - SHEET 3	X
214	M-604	DETAILS - SHEET 4	X
215	M-605	DETAILS - SHEET 5	X
216	M-606	DETAILS - SHEET 6	X
217	M-607	DETAILS - SHEET 7	X
218	M-608	DETAILS - SHEET 8	X
219	M-609	DETAILS - SHEET 9	X
220	M-610	DETAILS - SHEET 10	X
221	M-611	DETAILS - SHEET 11	X
INSTRUMENTATION			
222	I-001	GENERAL NOTES, SYMBOLS AND LEGEND	X
223	I-002	CONTROL SYSTEM BLOCK DIAGRAM	X
224	I-003	FACILITY SIGNAL COORDINATION - PROCESS AND INSTRUMENT DIAGRAM	X
225	I-004	MIXER AND FLOCCULATORS - PROCESS AND INSTRUMENT DIAGRAM	X
226	I-005	DISSOLVED AIR FLOTATION (DAF) - PROCESS AND INSTRUMENT DIAGRAM	X
227	I-006	FILTERS AND DAF RECYCLE PUMPS - PROCESS AND INSTRUMENT DIAGRAM	X
228	I-007	DAF RECYCLE SATURATION SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
229	I-008	AIR SCOUR BLOWER SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
230	I-009	FILTERED WATER AND BACKWASH SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
231	I-010	COMBINED WASTE WASHWATER SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
232	I-011	FLOATED SOLIDS TRANSFER SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
233	I-012	DEWATERING CENTRIFUGE - PROCESS AND INSTRUMENT DIAGRAM	X
234	I-013	RESIDUALS HANDLING SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
235	I-014	CHEMICAL SYSTEMS - COAGULANT - PROCESS AND INSTRUMENT DIAGRAM	X
236	I-015	CHEMICAL SYSTEMS - SODIUM HYPOCHLORITE - PROCESS AND INSTRUMENT DIAGRAM	X
237	I-016	CHEMICAL SYSTEMS - SODIUM HYDROXIDE - PROCESS AND INSTRUMENT DIAGRAM	X
238	I-017	CHEMICAL SYSTEMS - CORROSION INHIBITOR - PROCESS AND INSTRUMENT DIAGRAM	X

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"ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC
DESCRIPTION OF THE ALTERATION.

						PROJECT ENGINEER:	R. FROST
						DESIGNED BY:	R. FROST
						DRAWN BY:	B. CASULL
						CHECKED BY:	E. FELDMAN
						IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"
REV		ISSUED FOR		DATE	BY		

BID SET



Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

GENERAL
DRAWING INDEX - SHEET 1

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-002

239	I-018	CHEMICAL SYSTEMS - HYDROFLUOROSILICIC ACID - PROCESS AND INSTRUMENT DIAGRAM	X
240	I-019	UV AND FINAL CHEMICAL ADDITION - PROCESS AND INSTRUMENT DIAGRAM	X
241	I-020	RESIDUAL POLYMER SYSTEMS - PROCESS AND INSTRUMENT DIAGRAM	X
242	I-021	SUPPORT SYSTEMS - PROCESS AND INSTRUMENT DIAGRAM	X
243	I-022	INSTALLATION DETAILS SHEET 1	X
244	I-023	INSTALLATION DETAILS SHEET 2	X
245	I-024	INSTALLATION DETAILS SHEET 3	X
HVAC			
246	H-001	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X
247	H-002	CONTROL DIAGRAMS - SHEET 1	X
248	H-003	CONTROL DIAGRAMS - SHEET 2	X
249	H-004	CONTROL DIAGRAMS - SHEET 3	X
250	H-005	CONTROL DIAGRAMS - SHEET 4	X
251	H-006	CONTROL DIAGRAMS - SHEET 5	X
252	H-007	CONTROL DIAGRAMS - SHEET 6	X
253	H-100	EL. 383.00 - OVERALL PLAN	X
254	H-101	EL. 407.00 - AREA 1	X
255	H-102	EL. 407.00 - AREA 2	X
256	H-103	EL. 407.00 - AREA 3	X
257	H-104	EL. 407.00 - AREA 6	X
258	H-105	EL. 421.00 & EL. 429.33 - OVERALL PLAN	X
259	H-106	EL. 421.00 & EL. 429.33 - AREA 1	X
260	H-107	EL. 421.00 & EL. 429.33 - AREA 2	X
261	H-108	EL. 421.00 - AREA 3	X
262	H-109	EL. 421.00 - AREA 4	X
263	H-110	EL. 421.00 - AREA 5	X
264	H-111	EL. 421.00 - AREA 6	X
265	H-200	SECTIONS - SHEET 1	X
266	H-201	SECTIONS - SHEET 2	X
267	H-202	SECTIONS - SHEET 3	X
268	H-600	SCHEDULES - SHEET 1	X
269	H-601	SCHEDULES - SHEET 2	X
270	H-602	SCHEDULES - SHEET 3	X
271	H-603	SCHEDULES - SHEET 4	X
272	H-604	DETAILS - SHEET 1	X
273	H-605	DETAILS - SHEET 2	X
274	H-606	DETAILS - SHEET 3	X
PLUMBING			
275	P-001	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X
276	P-002	DOMESTIC WATER RISER DIAGRAM	X
277	P-003	SANITARY RISER DIAGRAM -SHEET 1	X
278	P-004	SANITARY RISER DIAGRAM -SHEET 2	X
279	P-005	STORM RISER DIAGRAM	X
280	P-100	BASEMENT PLAN EL 383.00	X
281	P-101	EL. 407.00 -AREA 1	X
282	P-102	EL. 407.00 -AREA 2	X
283	P-103	EL. 407.00 -AREA 3	X
284	P-104	EL. 407.00 -AREA 5	X
285	P-105	EL. 407.00 -AREA 6	X
286	P-106	BACKFLOW PREVENTION PLAN	X
287	P-107	SECOND FLOOR PLAN EL 421.00	X
288	P-108	EL. 421.00 -AREA 1	X
289	P-109	EL. 421.00 -AREA 2	X
290	P-110	EL. 421.00 -AREA 3	X
291	P-111	EL. 421.00 -AREA 4	X
292	P-112	EL. 421.00 -AREA 5	X
293	P-113	EL. 421.00 -AREA 6	X
294	P-114	ROOF PLAN	X
295	P-200	SECTIONS	X
296	P-600	SCHEDULES -SHEET 1	X
297	P-601	SCHEDULES -SHEET 2	X
298	P-602	DETAILS -SHEET 1	X
299	P-603	DETAILS -SHEET 2	X
300	P-604	DETAILS -SHEET 3	X
FIRE PROTECTION			

301	FP-001	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X
302	FP-002	DETAILS -SHEET 1	X
303	FP-100	EL. 383.00 -OVERALL PLAN	X
304	FP-101	EL. 407.00 -OVERALL PLAN	X
305	FP-102	EL. 421.00 -OVERALL PLAN	X
ELECTRICAL			
306	E-001	LEGENDS, AND SYMBOLS	X
307	E-002	GENERAL NOTES & ABBREVIATIONS	X
308	E-003	OVERALL SINGLE LINE DIAGRAM	X
309	E-004	MCC-1 SINGLE LINE DIAGRAM	X
310	E-005	MCC-2 SINGLE LINE DIAGRAM SHEET 1	X
311	E-006	MCC-2 SINGLE LINE DIAGRAM SHEET 2	X
312	E-007	MCC-2 SINGLE LINE DIAGRAM SHEET 3	X
313	E-008	SWITCHBOARD AND GENERATOR SWITCHGEAR ELEVATIONS	X
314	E-009	MCC-1 ELEVATION	X
315	E-010	MCC-2 ELEVATION	X
316	E-011	SOLAR SYSTEM RISER DIAGRAM	X
317	E-012	PANEL BOARD SCHEDULES - SHEET 1	X
318	E-013	PANEL BOARD SCHEDULES - SHEET 2	X
319	E-014	PANEL BOARD SCHEDULES - SHEET 3	X
320	E-015	PANEL BOARD SCHEDULES - SHEET 4	X
321	E-016	PANEL BOARD SCHEDULES - SHEET 5	X
322	E-017	PANEL BOARD SCHEDULES - SHEET 6	X
323	E-018	WIRING DIAGRAM - SHEET 1	X
324	E-019	WIRING DIAGRAM - SHEET 2	X
325	E-020	WIRING DIAGRAM - SHEET 3	X
326	E-021	WIRING DIAGRAM - SHEET 4	X
327	E-022	FIRE ALARM SYSTEM RISER DIAGRAM - SHEET 1	X
328	E-023	FIRE ALARM SYSTEM RISER DIAGRAM - SHEET 2	X
329	E-024	SECURITY SYSTEM AND PAGING/COMMUNICATION NETWORK RISER DIAGRAM - SHEET 1	X
330	E-025	SECURITY SYSTEM AND PAGING/COMMUNICATION NETWORK RISER DIAGRAM - SHEET 2	X
331	E-100	SITE PLAN	X
332	E-101	POWER PLAN - EL 383.00 -AREA 1	X
333	E-102	POWER PLAN - EL 383.00 -AREA 2 & 3	X
334	E-103	POWER PLAN - EL 398.00 -AREA 1	X
335	E-104	POWER PLAN - EL 398.00 -AREA 2 & 3	X
336	E-105	POWER PLAN - EL 407.00 -AREA 1	X
337	E-106	POWER PLAN - EL 407.00 -AREA 2	X
338	E-107	POWER PLAN - EL 407.00 -AREA 3	X
339	E-108	POWER PLAN - EL 407.00 -AREA 4	X
340	E-109	POWER PLAN - EL 407.00 -AREA 5	X
341	E-110	POWER PLAN - EL 407.00 -AREA 6	X
342	E-111	POWER PLAN - EL 421.00 -AREA 1	X
343	E-112	POWER PLAN - EL 421.00 -AREA 2	X
344	E-113	POWER PLAN - EL 421.00 -AREA 3	X
345	E-114	POWER PLAN - EL 421.00 -AREA 4	X
346	E-115	POWER PLAN - EL 421.00 -AREA 5	X
347	E-116	POWER PLAN - EL 421.00 -AREA 6	X
348	E-117	POWER AND LIGHTING PLAN - EL 436.50 -ROOF	X
349	E-118	ENLARGED ROOM - EL 407.00	X
350	E-119	ENLARGED ROOM - EL 421.00	X
351	E-120	LIGHTING PLAN - EL 383.00 -AREA 1	X
352	E-121	LIGHTING PLAN - EL 383.00 -AREA 2 & 3	X
353	E-122	LIGHTING PLAN - EL 398.00 -AREA 1	X
354	E-123	LIGHTING PLAN - EL 398.00 -AREA 2 & 3	X
355	E-124	LIGHTING PLAN - EL 407.00 -AREA 1	X
356	E-125	LIGHTING PLAN - EL 407.00 -AREA 2	X
357	E-126	LIGHTING PLAN - EL 407.00 -AREA 3	X
358	E-127	LIGHTING PLAN - EL 407.00 -AREA 4	X
359	E-128	LIGHTING PLAN - EL 407.00 -AREA 5	X
360	E-129	LIGHTING PLAN - EL 407.00 -AREA 6	X
361	E-130	LIGHTING PLAN - EL 421.00 -AREA 1	X
362	E-131	LIGHTING PLAN - EL 421.00 -AREA 2	X
363	E-132	LIGHTING PLAN - EL 421.00 -AREA 3	X
364	E-133	LIGHTING PLAN - EL 421.00 -AREA 4	X
365	E-134	LIGHTING PLAN - EL 421.00 -AREA 5	X

366	E-135	LIGHTING PLAN - EL 421.00 -AREA 6	X
367	E-136	FIRE ALARM & SECURITY PLAN - EL 383.00 -AREA 1	X
368	E-137	FIRE ALARM & SECURITY PLAN - EL 383.00 -AREA 2 & 3	X
369	E-138	FIRE ALARM & SECURITY PLAN - EL 398.00 -AREA 1	X
370	E-139	FIRE ALARM & SECURITY PLAN - EL 398.00 -AREA 2 & 3	X
371	E-140	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 1	X
372	E-141	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 2	X
373	E-142	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 3	X
374	E-143	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 4	X
375	E-144	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 5	X
376	E-145	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 6	X
377	E-146	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 1	X
378	E-147	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 2	X
379	E-148	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 3	X
380	E-149	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 4	X
381	E-150	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 5	X
382	E-151	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 6	X
383	E-152	LIGHTNING PROTECTION PLAN	X
384	E-153	GROUNDING PLAN	X
385	E-201	STAIRCASE SECTIONS -SHEET 1	X
386	E-202	STAIRCASE SECTIONS -SHEET 2	X
387	E-501	WASTE WASHWATER TANK -POWER PLAN	X
388	E-601	STANDARD DETAILS - SHEET 1	X
389	E-602	STANDARD DETAILS - SHEET 2	X
390	E-603	STANDARD DETAILS - SHEET 3	X
391	E-604	STANDARD DETAILS - SHEET 4	X
392	E-605	STANDARD DETAILS - SHEET 5	X

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					PROJECT ENGINEER:	R. FROST
					DESIGNED BY:	R. FROST
					DRAWN BY:	B. CASULL
					CHECKED BY:	E. FELDMAN
					IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	01/2"1"
REV	ISSUED FOR	DATE	BY			

BID SET



Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

GENERAL
DRAWING INDEX - SHEET 2

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-003

ABBREVIATIONS

AB	ANCHOR BOLT	DB	DRY BULB	GWF	GLAZED WALL FINISH	OA	OUTDOOR AIR	STL	STEEL
ABW	AUTOMATIC BACKWASH	DC	DIRECT CURRENT	GYP	GYPSUM	OC	ON CENTER	STO	STORAGE
AC	ALTERNATING CURRENT / ASBESTOS CEMENT / AIR CONDITIONING	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	H	HEIGHT	OD	OUTSIDE DIAMETER	STRU	STRUCTURAL
ACCU	AIR COOLED	DET	DETAIL	HB	HOSEBIB	OF	OUTSIDE FACE	SUB	SUBSTITUTE
ACH	AIR CHANGES PER HOUR	DF	DRINKING FOUNTAIN	HDW	HARDWARE	SUP	SUPPLY	SUP	SUPPLY
ACT	ACOUSTIC TILE	DFU	DRAINAGE FIXTURE UNIT	HEX	HEXAGONAL	SUR	SURFACE	SUR	SUPERINTENDENT
AD	AREA DRAIN	DHU	DEHUMIDIFICATION UNIT	HHWL	HIGH HIGH WATER LEVEL	OPP	OPPOSITE	SUSP	SUSPENDED
ADDL	ADDITIONAL	DI	DISCRETE INPUT	HM	HOLLOW METAL	ORIG	ORIGINAL	SW	SWITCH
ADJ	ADJUSTABLE	DIA (Ø)	DIAMETER	HMCP	HVAC MASTER	OT	OPEN TRUSS	SWBD	SWITCHBOARD
AFF	ABOVE FINISHED FLOOR	DIAG	DIAGONAL	HMI	HUMAN/MACHINE INTERFACE	OVHD	OVERHEAD	SWD	SIDE WATER DEPTH
AGGR	AGGREGATE	DIM	DIMENSION	HORZ	HORIZONTAL	P	PROPANE	SYM	SYMMETRICAL
AHU	AIR HANDLING UNIT	DIP	DUCTILE IRON PIPE	HP	HORSEPOWER	PAR	PARALLEL	T	TREAD / THERMOSTAT
AI	ANALOG INPUT	DISCH	DISCHARGE	HPT	HIGH POINT	PC	POINT OF CURVE/ PIECE	T&B	TOP AND BOTTOM
AL	ALUMINUM	DIST	DISTRIBUTION	HR	HOSE REEL / HOUR	PCC	POINT OF COMPOUND CURVE	T&G	TONGUE AND GROOVE
ALLOW	ALLOWANCE/ALLOWABLE	DJ	DOUBLE JOINT	HSS	HOLLOW STRUCTURAL SECTION	PCF	POUNDS PER CUBIC FOOT+	TAN	TANGENT
ALT	ALTERNATE	DL	DEAD LOAD	HTR	HEATER	PD	PRESSURE DROP	TBM	TEMPORARY BENCH MARK
AO	ANALOG OUTPUT	DN	DOWN	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	PE	PLAIN END / POWER	TC	TOP OF CURB
APPROX	APPROXIMATE	DOZ	DOZEN	I	IRON	PE LINING	EXHAUSTER	TD	TRENCH DRAIN
ARCH	ARCHITECTURAL	DPIT	DIFFERENTIAL PRESSURE INDICATING TRANSMITTER	ID	INSIDE DIAMETER	PERF	POLYETHYLENE LINING	TDGV	TILTED DISC CHECK VALVE
ASB	ASBESTOS	DPOL	DEWATERING POLYMER	IF	INSIDE FACE	PERP	PERFORATED	TDH	TOTAL DYNAMIC HEAD
ASPH	ASPHALT	DPSL	DIFFERENTIAL PRESSURE SENSOR LOW	IN	INCH	PG	PRESSURE GAUGE	TFE	TETRAFLUOROETHYLENE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	DW	DOOR	INCL	INCLUDED	PH	HYDROGEN ION CONCENTRATION / PHASE	TECH	TECHNICAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	DWG	DRAWING	INS	INSULATION	PI	POINT OF INTERSECTION / PRESSURE INDICATOR	TEL	TELEPHONE
AT	ASPHALT TILE	DWH	DOMESTIC WATER HEATER	INT	INTERIOR	PL	PROPERTY LINE/ PLATE	TEMP	TEMPERATURE
ATC	AUTOMATIC TEMPERATURE CONTROL	DWL	DOWN	INV	INVERT	PLC	PROGRAMMABLE LOGIC CONTROLLER	TER	TERRAZZO
B	BORING	DWV	DRAINAGE, WASTE AND VENT	IW	INDIRECT WASTE	PL	PROGRAMMABLE LOGIC CONTROLLER	THK	THICK
BD	BOARD	DX	DIRECT EXPANSION REFRIGERANT	IWH	INSTANTANEOUS WATER HEATER	PLC	PROGRAMMABLE LOGIC CONTROLLER	THRU	THROUGH
BFE	BOTTOM OF FITTING ELEV	E	EAST/ EASEMENT	J	JOIST	PNL	PANEL	TMV	THERMOSTATIC MIXING VALVE
BFP	BACKFLOW PREVENTER	EA	EACH / EXHAUST AIR	JB	JUNCTION BOX	PP	POWER POLE	TOC	TOP OF CONCRETE
BFFA	BACKFLOW PREVENTER ASSEMBLY	EAT	ENTERING AIR TEMPERATURE	JCT	JUNCTION	PREFAB	PREFABRICATED	TOD	TOP OF DECK
BFV	BUTTERFLY VALVE	ECC	ECCENTRIC	ENT	ENTRANCE	PRV	PRESSURE RELIEF VALVE	TOF	TOP OF FOOTING
BHP	BRAKE HORSE POWER	EFF	EFFLUENT / EFFICIENCY	EOG	EDGE OF GRAVEL	PSF	POUNDS PER SQUARE FOOT	TOM	TOP OF MASONRY/ MANHOLE
BITUM	BITUMINOUS	EIP	EXIST IRON PIPE	EOP	EDGE OF PAVEMENT	PSI	POUNDS PER SQUARE INCH	TOS	TOP OF SLAB
BL	BASE LINE/ BUILDING LINE	EJ	EXPANSION JOINT	EQ	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH	TOW	TOP OF WALL
BLCP	BOILER LOCAL CONTROL PANEL	EL	ELEVATION	EQT	EQUIPMENT	PT	PRESSURE RELIEF VALVE	TOL	TOLERANCE
BLDG	BUILDING	EL ELEC	ELECTRIC/ ELECTRICAL ELBOW	ES	ELECTRIC POWER SUPPLY	PTN	POINT OF TANGENT/ POINT	TPS	TWISTED PAIR SHIELDED
BLK	BLOCK	ELL	ELBOW	ESD	EMERGENCY SHUTDOWN	PV	PLUG VALVE / PROPANE VAPORIZER	TRANS	TRANSFORMER
BM	BENCH MARK	EMB	EMBEDDED	ESE	EMERGENCY SHOWER AND EYEWASH	PVC	POLYVINYL CHLORIDE	TS	TEMPERATURE SWITCH
BMCP	BOILER MASTER CONTROL PANEL	ENGR	ENGINEER	ESP	EXTERNAL STATIC PRESSURE	PVMT	PAVEMENT	TURB	TURBIDITY
BOC	BACK OF CURB	ENT	ENTRANCE	ETC	EXTERNAL TANK	PW	POTABLE WATER	TW	TEPID WATER
BOD	BOTTOM OF DUCT	EOG	EDGE OF GRAVEL	EUH	ELECTRIC UNIT HEATER	QTY	QUANTITY	TWH	TEPID WATER HEATER
BOTT	BOTTOM	EOP	EDGE OF PAVEMENT	EW	EACH WAY	R	RADIUS/ RISER	TYP	TYPICAL
BRG	BEARING	EQT	EQUIPMENT	EWT	ENTERING WATER TEMPERATURE	RA	RETURN AIR	UG	UNDERGROUND
BRK	BRICK	ES	ELECTRIC POWER SUPPLY	F	FLUORINE / FAHRENHEIT	RCP	REINFORCED CONCRETE PIPE / RECIRCULATING PUMP ROAD/ ROOF DRAIN	UH	HOT WATER UNIT HEATER
BRZ	BRONZE	ESD	EMERGENCY SHUTDOWN	FAB	FABRICATE	RD	REINFORCED CONCRETE PIPE / RECIRCULATING PUMP ROAD/ ROOF DRAIN	UL	UNDERWRITERS LABORATORY
BSMT	BASEMENT	ESP	EXTERNAL STATIC PRESSURE	FACP	FIRE ALARM CONTROL PANEL	RECIR	RECIRCULATION	UNFIN	UNFINISHED
BT	BOLT	ETC	EXTERNAL TANK	F&C	FRAME AND COVER	RECT	RECTANGULAR	UNO	UNLESS NOTED OTHERWISE
BTU	BRITISH THERMAL UNIT	EUH	ELECTRIC UNIT HEATER	F&G	FRAME AND GRATE	RED	REDUCER	UTIL	UTILITY
BUR	BUILT-UP ROOFING	EW	EACH WAY	FC	FLUSHING CONNECTION	REF	REFERENCE	UV	ULTRAVIOLET
BV	BALL VALVE	EWT	ENTERING WATER TEMPERATURE	FD	FLOOR DRAIN / FIRE DAMPER	REG	REGISTER	UV254	UV ABSORBANCE AT 254 NANOMETERS
C	CLOSET/CARPET/CHANNEL	EXT	EXTERIOR	FDC	FIRE DEPARTMENT CONNECTION	REINF	REINFORCING	V	SANITARY VENT
CAB	CABINET	FDN	FOUNDATION	FE	FIRE EXTINGUISHER	REIN	REINFORCING	VAC	VACUUM
CB	CATCH BASIN	FE	FIRE EXTINGUISHER	FE	FINISHED FLOOR	REM	REMOVE	VAT	VINYL ASBESTOS TILE
CC	CENTER / CENTER	FF	FINISHED FLOOR	FG	FLANGE	RND	ROUND	VB	VACUUM BREAKER
CCP	CENTRIFUGE CONTROL PANEL	FH	FIRE HYDRANT	FG&C	FRAME AND GRATE	RO	ROUGH OPENING	VCP	VITRIFIED CLAY PIPE / VENDOR CONTROL PANEL
CD	CEILING DIFFUSER	FIN	FINISH	FC	FLUSHING CONNECTION	RPM	REVOLUTIONS PER MINUTE	VD	VOLUME DAMPER
CE	CONSTRUCTION EASEMENT	FIX	FIXTURE	FD	FLOOR DRAIN / FIRE DAMPER	RT	RIGHT	VEL	VELOCITY
CEM	CEMENT	FL	FLASHING/ FLOOR	FDC	FIRE DEPARTMENT CONNECTION	RTU	REMOTE TERMINAL UNIT	VENT	VENTILATING/ VENTILATION
CER	CERAMIC	FLEX	FLEXIBLE	FDN	FOUNDATION	RW	RIGHT WATER	VERT	VERTICAL
CF	CUBIC FEET	FLG	FLANGE	FE	FIRE EXTINGUISHER	RWL	RAIN WATER LEADER	VFD	VARIABLE FREQUENCY DRIVE
CFM	CUBIC FEET PER MINUTE	FLGR	FLUORESCENT	FE	FIRE EXTINGUISHER	S	SOUTH	VOL	VOLUME
CFT	CHEMICAL FEED TANK	FLXC	FLEXIBLE CONNECTION	FF	FINISHED FLOOR	SA	SUPPLY AIR	VP	VENT PIPE
CI	CAST IRON/ CUBIC INCHES	FM	FLOW METER	FG	FRAME AND GRATE	SAN	SANITARY	VWC	VINYL WALL COVERING
CISPI	CAST IRON SOIL PIPE	FP	FIRE PROTECTION	FC	FLUSHING CONNECTION	SAS	SAMPLE SINK	W	WEST/ WIDTH
CIP	CAST IRON PIPE	FPRF	FIREPROOF	FD	FLOOR DRAIN / FIRE DAMPER	SBL	SURVEY BASELINE	WB	WET BULB
CL	CENTER LINE / CHLORINE / CLOSET	FRP	FIBERGLASS REINFORCED	FDC	FIRE DEPARTMENT CONNECTION	SCH	SCHEDULE	WC	WATER CLOSET / WATER COLUMN
CLG	CEILING	FS	POLYESTER LAMINATE	FDN	FOUNDATION	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION	WCO	WALL CLEANOUT
CLKG	CAULKING	FT	FEET	FE	FIRE EXTINGUISHER	SECT	SECTION	WD	WALL DIFFUSER
CLR	CLEAR	FTT	FOOTING/ FITTING	FE	FINISHED FLOOR	SERV	SERVICE	WE	WEIGHT ELEMENT
CLW	CLEAR WATER DRAIN	FURR	FURRING/ FURRED	FG	FRAME AND GRATE	SEW	SEWER	WF	WIDE FLANGE
CMP	CORRUGATED METAL PIPE	G	GAS/ GAS LINE	FG	FRAME AND GRATE	SF	SQUARE FEET	WG	WATER GAUGE
CMU	CONCRETE MASONRY UNIT	GA	GAS/ GAS LINE	FG	FRAME AND GRATE	SH	SHOWER	WH	WATER HEATER
CO2	CARBON DIOXIDE	GAC	GRANULAR ACTIVATED	FG	FRAME AND GRATE	SHT	SHEET	WHA	WATER HAMMER ARRESTER
CO	CLEANOUT	GAL	GALLON	FG	FRAME AND GRATE	SI	SQUARE INCH	WI	WROUGHT IRON
COAG	COAGULANT	GALV	GALVANIZED	FG	FRAME AND GRATE	SLG	SLIDE GATE	WIT	WEIGHT INDICATING
CODP	CLEANOUT DECK PLATE	GDC	GRANULAR ACTIVATED	FG	FRAME AND GRATE	SM	SIMILAR	WJWW	WESTCHESTER JOINT WATER WORKS
COL	COLUMN	GALV	GALVANIZED	FG	FRAME AND GRATE	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION	WL	WATER LEVEL
COMP	COMPRESSOR	GC	GENERAL CONTRACTOR	FG	FRAME AND GRATE	SJ	STEEL JOIST	WL	WATER LINE
CONC	CONCRETE	GD	GRAVITY DAMPER	FG	FRAME AND GRATE	SPEC	SPECIFICATION	WM	WATER METER
CONN	CONNECTION	GEN	GENERATOR	FG	FRAME AND GRATE	SQ	SQUARE	WMS	WIRE MESH SCREEN
CONST	CONSTRUCTION	GL	GLOBE VALVE	FG	FRAME AND GRATE	SR	SHORT RADIUS	WO	WINDOW OPENING
CONT	CONTINUOUS	GLV	GALVANIZED	FG	FRAME AND GRATE	SS	SANITARY SEWER / SERVICE SINK	W/O	WITHOUT
CONTR	CONTRACTOR	GMU	GLYCOL MAKEUP UNIT	FG	FRAME AND GRATE	ST	STREET / STORAGE TANK	WP	WATERPROOF
CONV	CONVEYOR	GPH	GALLONS PER HOUR	FG	FRAME AND GRATE	STA	STATION	WPG	WATER PROOFING
CORP	CORPORATION	GPM	GALLONS PER MINUTE	FG	FRAME AND GRATE	STD	STANDARD	WPT	WALL PENETRATING TYPE
CORR	CORRIDOR	GR	GRADE / GRAINS OF MOISTURE	FG	FRAME AND GRATE	STG	STORAGE	WSE	WATER SURFACE ELEVATION
CP	CONCRETE PLANK	GV	GATE VALVE	FG	FRAME AND GRATE	STIR	STIRRUP	WSP	WEATHERSTRIP
CPP	CENTRIFUGE POWER PANEL	GW	GUY WIRE	FG	FRAME AND GRATE			WT	WEIGHT
CPVC	CHLORINATED POLYVINYL CHLORIDE	GWB	GYPSTUM WALL BOARD	FG	FRAME AND GRATE			WV	WATER VALVE
CRS	COURSE			FG	FRAME AND GRATE			WWF	WELDED WIRE FABRIC
CT	CERAMIC TILE			FG	FRAME AND GRATE			XH	EXTRA HEAVY CAST IRON SOIL PIPE
CTJ	CONTROL JOINT			FG	FRAME AND GRATE			YD	YARD
CU	COPPER			FG	FRAME AND GRATE			YR	YEAR
CV	CHECK VALVE			FG	FRAME AND GRATE				
CW	COLD WATER			FG	FRAME AND GRATE				
CY	CUBIC YARD			FG	FRAME AND GRATE				
DAF	DISSOLVED AIR FLOTATION			FG	FRAME AND GRATE				

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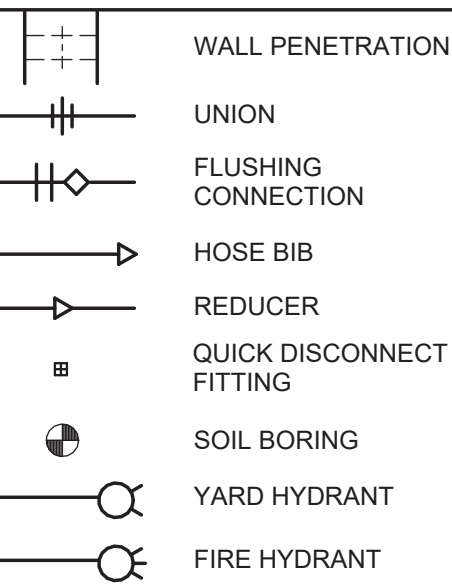
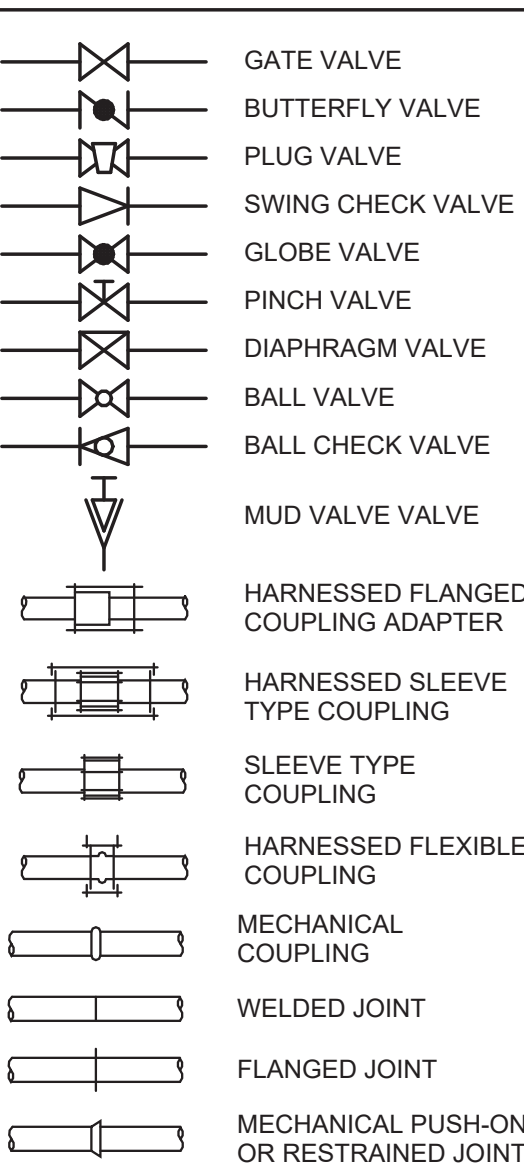
GENERAL NOTES

NOTES:

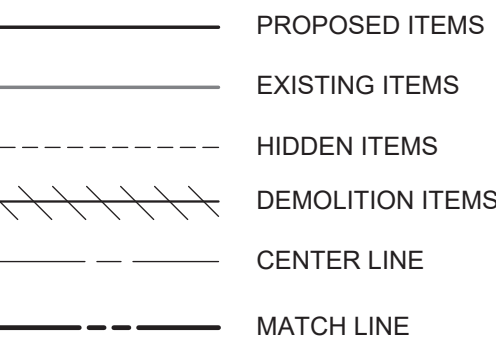
- THE CONTRACTOR SHALL DIRECT TRUCK DRIVERS TO USE MAJOR ROADS AND HIGHWAYS WHERE POSSIBLE TO AVOID THE USE OF RESIDENTIAL ROADS AND BACK STREETS AND ENSURE THAT ALL CONSTRUCTION TRUCK TRAFFIC BE REQUIRED TO APPROACH AND DEPART THE SITE FROM AND TO THE NORTH. CONSTRUCTION TRUCKS ARE PROHIBITED FROM MAKING LEFT-HAND TURNS WHEN EXITING THE PROJECT SITE ONTO PURCHASE STREET.
- THE CONTRACTOR MUST POST AN ON-SITE SPEED LIMIT OF TEN (10) MILES PER HOUR AND FOLLOW SUCH SPEED AT ALL TIMES.

LEGEND

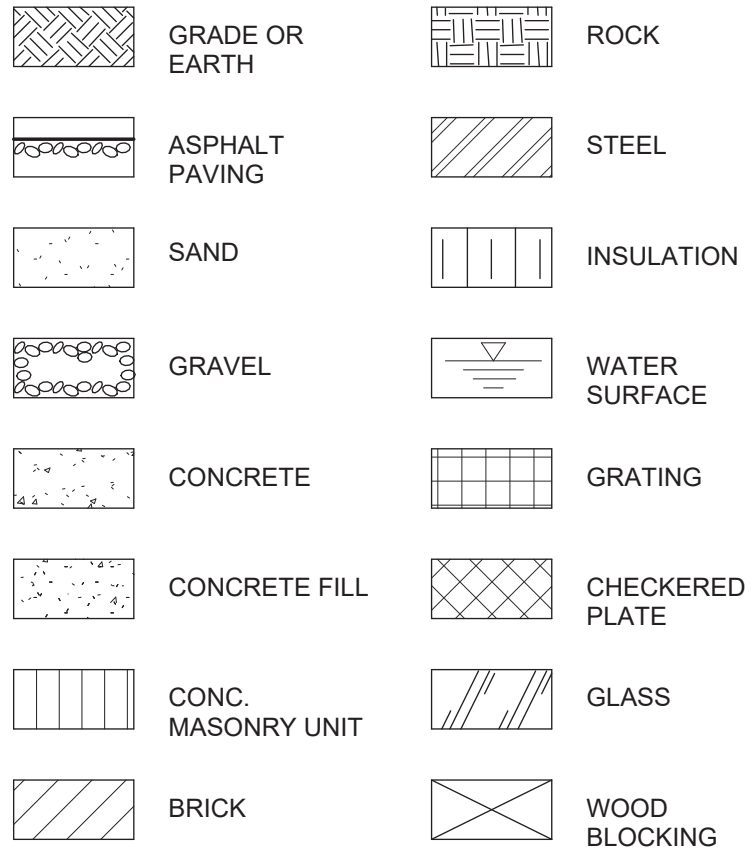
SYMBOLS



LINETYPES



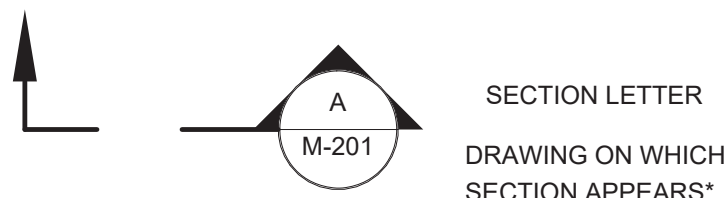
MATERIALS



SECTION AND DETAIL KEYING

SECTION IDENTIFICATION

(1) SECTION CUT ON DRAWING M-201:

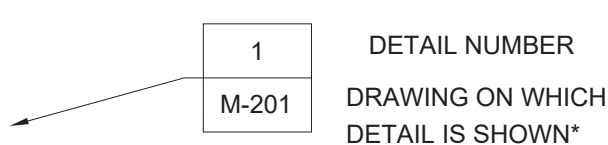


(2) ON DRAWING M-201 THIS SECTION IS IDENTIFIED AS:

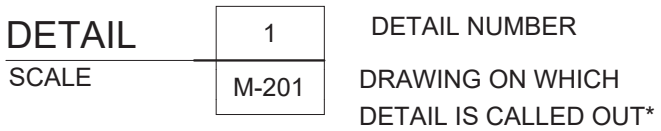


DETAIL IDENTIFICATION

(1) DETAIL CALL-OUT ON DRAWING M-201 AS:



(2) ON DRAWING M-201 THIS DETAIL IDENTIFIED AS:



* NOTE:
IF PLAN, SECTION AND DETAIL (OR DETAIL CALL-OUT) ARE SHOWN ON SAME DRAWING, DRAWING NUMBER IS REPLACED BY A LINE.

STANDARD DETAIL IDENTIFICATION

STANDARD DETAILS ARE REFERENCED BY A UNIQUE SEVEN DIGIT NUMBER AND ARE SHOWN ON THE CONTRACT DRAWINGS AS SHOWN:

STANDARD DETAILS ARE ARRANGED IN NUMERICAL ORDER ON THE STANDARD DETAIL SHEETS

STANDARD DETAIL NUMBER

X-123

EQUIPMENT ID

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	R. FROST
DRAWN BY:	B. CASULL
CHECKED BY:	E. FELDMAN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"



Hazen

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NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

GENERAL
GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

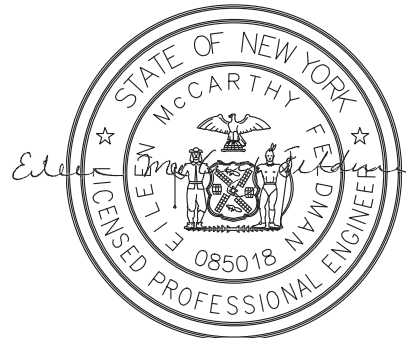
DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-004

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				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	<div><div></div><div>0</div><div>1/2"</div><div>1"</div></div>
REV	ISSUED FOR	DATE	BY		

BID SET



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WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

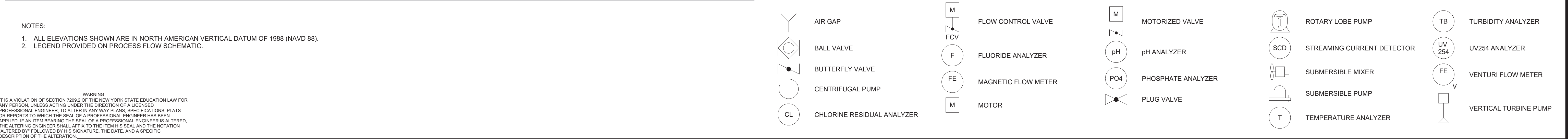
RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

GENERAL
GENERAL AREA DESIGNATION TABLES

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-005

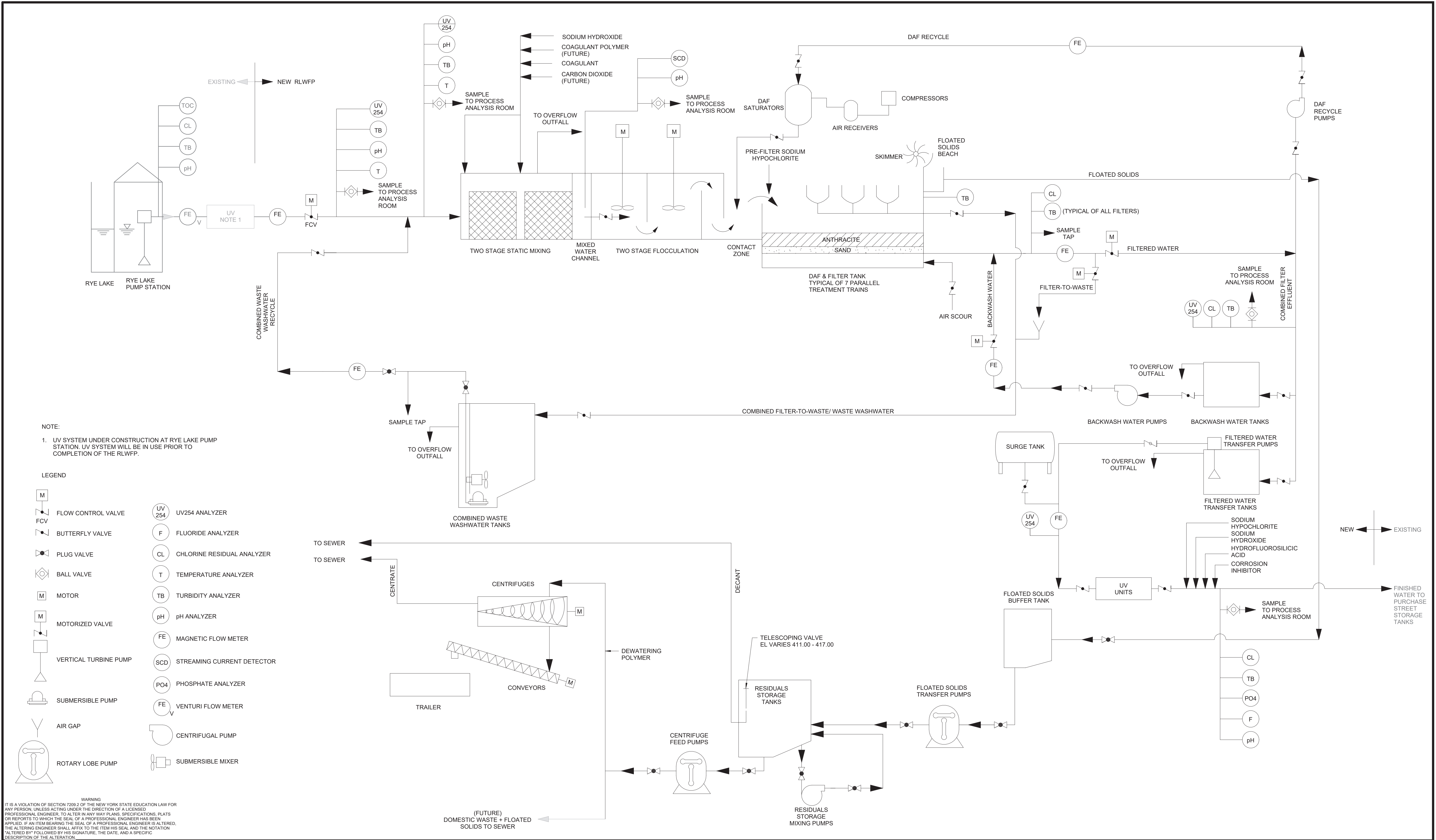
AREA/ROOM DESIGNATION			
ROOM NUMBER	BUILDING NAME	AREA/ROOM NAME	AREA/ROOM DESIGNATION
001	FILTRATION PLANT	BACKWASH TANK	INDOOR WET PROCESS AREA
002	FILTRATION PLANT	FILTERED WATER TRANSFER TANKS	INDOOR WET PROCESS AREA
003	FILTRATION PLANT	FLOATED SOLIDS BUFFER TANK	INDOOR WET PROCESS AREA
004	FILTRATION PLANT	UV DISINFECTION SYSTEM	INDOOR WET PROCESS AREA
005	FILTRATION PLANT	RESIDUALS STORAGE TANKS	INDOOR WET PROCESS AREA
006	FILTRATION PLANT	STORAGE CLOSET	INDOOR DRY NON-PROCESS AREA
007	FILTRATION PLANT	PIPE GALLERY	INDOOR WET PROCESS AREA
008	FILTRATION PLANT	VESTIBULE	INDOOR DRY NON-PROCESS AREA
101	FILTRATION PLANT	HYDROFLUOROSILICIC ACID	TYPE 1 CHEMICAL STORAGE / TRANSFER AREA
102	FILTRATION PLANT	SODIUM HYPOCHLORITE	TYPE 1 CHEMICAL STORAGE / TRANSFER AREA
103	FILTRATION PLANT	COAGULANT	TYPE 2 CHEMICAL STORAGE / TRANSFER AREA
104	FILTRATION PLANT	CORROSION INHIBITOR	TYPE 2 CHEMICAL STORAGE / TRANSFER AREA
105	FILTRATION PLANT	POLYMER/SOFTENER (FUTURE)	TYPE 2 CHEMICAL STORAGE / TRANSFER AREA
106	FILTRATION PLANT	FILTERED WATER PUMPING & DAF ROOM	INDOOR WET PROCESS AREA
107	FILTRATION PLANT	SODIUM HYDROXIDE	TYPE 2 CHEMICAL STORAGE / TRANSFER AREA
108	FILTRATION PLANT	CLOSET	INDOOR DRY NON-PROCESS AREA
109	FILTRATION PLANT	DEWATERING ROOM	INDOOR WET PROCESS AREA
110	FILTRATION PLANT	FIRE SPRINKLER RISER ROOM	INDOOR DRY NON-PROCESS AREA
111	FILTRATION PLANT	CONFERENCE ROOM	INDOOR DRY NON-PROCESS AREA
112	FILTRATION PLANT	LOBBY	INDOOR DRY NON-PROCESS AREA
113	FILTRATION PLANT	VESTIBULE	INDOOR DRY NON-PROCESS AREA
114	FILTRATION PLANT	MAINTENANCE CLOSET	INDOOR DRY NON-PROCESS AREA
115	FILTRATION PLANT	WOMENS BATHROOM	INDOOR DRY NON-PROCESS AREA
116	FILTRATION PLANT	WOMENS LOCKER ROOM	INDOOR DRY NON-PROCESS AREA
117	FILTRATION PLANT	MENS BATHROOM	INDOOR DRY NON-PROCESS AREA
118	FILTRATION PLANT	MENS LOCKER ROOM	INDOOR DRY NON-PROCESS AREA
119	FILTRATION PLANT	ELECTRICAL	INDOOR DRY NON-PROCESS AREA
120	FILTRATION PLANT	RAW WATER PIPING	INDOOR WET PROCESS AREA
121	FILTRATION PLANT	STATIC MIXER AND OVERFLOW	INDOOR WET PROCESS AREA
122	FILTRATION PLANT	DAF TANKS	INDOOR WET PROCESS AREA
123	FILTRATION PLANT	EQUIPMENT PLATFORM	INDOOR WET PROCESS AREA
124	FILTRATION PLANT	VESTIBULE	INDOOR DRY NON-PROCESS AREA
201	FILTRATION PLANT	HVAC	INDOOR DRY NON-PROCESS AREA
202	FILTRATION PLANT	AIR SCOUR	INDOOR DRY PROCESS AREA
203	FILTRATION PLANT	ELECTRICAL ROOM	INDOOR DRY NON-PROCESS AREA
204	FILTRATION PLANT	STORAGE ROOM	INDOOR DRY NON-PROCESS AREA
205	FILTRATION PLANT	PROCESS ANALYSIS ROOM	INDOOR DRY NON-PROCESS AREA
206	FILTRATION PLANT	CONTROL ROOM	INDOOR DRY NON-PROCESS AREA
207	FILTRATION PLANT	SCADA ROOM	INDOOR DRY NON-PROCESS AREA
208	FILTRATION PLANT	HVAC	INDOOR DRY NON-PROCESS AREA
209	FILTRATION PLANT	COPY ROOM	INDOOR DRY NON-PROCESS AREA
210	FILTRATION PLANT	CHIEF'S OFFICE	INDOOR DRY NON-PROCESS AREA
211	FILTRATION PLANT	VESTIBULE	INDOOR DRY NON-PROCESS AREA
212	FILTRATION PLANT	MAINTENANCE CLOSET	INDOOR DRY NON-PROCESS AREA
213	FILTRATION PLANT	WC	INDOOR DRY NON-PROCESS AREA
214	FILTRATION PLANT	OPEN OFFICE	INDOOR DRY NON-PROCESS AREA
215	FILTRATION PLANT	HVAC	INDOOR DRY NON-PROCESS AREA
216	FILTRATION PLANT	STORAGE ROOM	INDOOR DRY NON-PROCESS AREA
217	FILTRATION PLANT	HVAC PLENUM	INDOOR DRY NON-PROCESS AREA
218	FILTRATION PLANT	OPERATING LEVEL	INDOOR WET PROCESS AREA
C01	FILTRATION PLANT	CORRIDOR	INDOOR DRY NON-PROCESS AREA
C02	FILTRATION PLANT	CORRIDOR	INDOOR DRY NON-PROCESS AREA
C03	FILTRATION PLANT	CORRIDOR	INDOOR DRY NON-PROCESS AREA
E01	FILTRATION PLANT	ELEVATOR	INDOOR DRY NON-PROCESS AREA
SA	FILTRATION PLANT	STAIR A	INDOOR DRY NON-PROCESS AREA
SB	FILTRATION PLANT	STAIR B	INDOOR DRY NON-PROCESS AREA
SC	FILTRATION PLANT	STAIR C	INDOOR DRY NON-PROCESS AREA
	ELECTRICAL SERVICE BUILDING	ELECTRICAL ROOM	INDOOR DRY NON-PROCESS AREA
	FILTRATION PLANT	INDOOR AREAS/ ROOMS NOT LISTED	INDOOR WET PROCESS AREA
	PUMP STATION	INDOOR AREAS/ ROOMS NOT LISTED	INDOOR WET PROCESS AREA
	SITE	OUTDOOR AREAS	OUTDOOR AREA
	FILTRATION PLANT	OUTDOOR AREAS	OUTDOOR AREA
	PUMP STATION	OUTDOOR AREAS	OUTDOOR AREA


AREA/ROOM DESIGNATION MATERIAL REQUIREMENTS						
DISCIPLINE / COMPONENT	AREA DESIGNATIONS					
	INDOOR WET PROCESS AREA	INDOOR DRY PROCESS AREA	INDOOR DRY NON- PROCESS AREA	TYPE 1 CHEMICAL STORAGE/TRANSFER AREA	TYPE 2 CHEMICAL STORAGE/TRANSFER AREA	OUTDOOR AREA
PROCESS MECHANICAL						
PIPE SUPPORTS	Per Section 40 05 07	See Section 40 05 07	See Section 40 05 08	FRP	FRP	316L SST, NOTE 2
PIPE SUPPORTS FOR SST AIR PIPE	316L SST, NOTE 2	304L SST, NOTE 2	304L SST	FRP	FRP	304L SST, NOTE 2
PIPE SUPPORT ANCHORS	316L SST	316L SST	304L SST	HASTELLOY C	316L SST	316L SST, NOTE 2
EQUIPMENT & CHEMICAL TANK ANCHORS	316L SST	316L SST	316L SST	HASTELLOY C	316L SST	316L SST
PIPE SUPPORT FASTENING HARDWARE AND THREADED ROD	Per Section 40 05 07	Per Section 40 05 07	HOT DIP GALV	FRP	FRP	316L SST, NOTE 2
STRUCTURAL						
GUARDS & RAILINGS	ALUMINUM OR FRP	ALUMINUM OR FRP	ALUMINUM OR FRP	FRP	FRP	ALUMINUM
GRATING	ALUMINUM OR FRP	ALUMINUM OR FRP	ALUMINUM OR FRP	FRP	FRP	ALUMINUM
GUARDS, RAILINGS, & GRATING ANCHORS	316L SST	304L SST	304L SST	HASTELLOY C	316L SST	316L SST
GUARDS, RAILINGS, & GRATING FASTENING HARDWARE	316L SST	304L SST	304L SST	316L SST	316L SST	304L SST
WATERSTOPS	PVC	PVC	PVC	CHEMICAL RESISTANT TFE	CHEMICAL RESISTANT TFE	PVC
HVAC						
DUCT HANGERS	316L SST	304L SST	HOT DIP GALV	FRP, NOTE 3	316L SST	304L SST
DUCT HANGER ANCHORS	316L SST	304L SST	HOT DIP GALV	HASTELLOY C, NOTE 4	316L SST	304L SST
DUCT HANGER FASTENING HARDWARE AND THREADED ROD	316L SST	304L SST	HOT DIP GALV	FRP, NOTE 3	316L SST	304L SST
PLUMBING						
PIPE HANGERS	304L SST	304L SST	HOT DIP GALV	FRP, NOTE 3	316L SST	304L SST
HANGER ANCHORS	316L SST	304L SST	HOT DIP GALV	HASTELLOY C, NOTE 4	316L SST	304L SST
HANGER FASTENING HARDWARE AND THREADED ROD	304L SST	304L SST	HOT DIP GALV	FRP, NOTE 3	316L SST	304L SST
ELECTRICAL						
SUPPORT CHANNELS AND THREADED ROD	316L SST	HOT DIP GALV	HOT DIP GALV	FRP	316L SST	304L SST
ANCHORS	316L SST	304L SST	304L SST	HASTELLOY C	316L SST	316L SST
FASTENING HARDWARE	316L SST	304L SST	HOT DIP GALV	FRP	316L SST	304L SST
NOTES: 1. THIS TABLE PROVIDES MINIMUM ACCEPTABLE MATERIAL REQUIREMENTS IF NO FURTHER GUIDANCE IS GIVEN IN DRAWINGS AND SPECIFICATIONS. ALTERNATE MATERIALS MAY BE REQUIRED WHERE SPECIFICALLY IDENTIFIED IN DRAWINGS OR SPECIFICATIONS. 2. PIPE SUPPORT MATERIALS (SUPPORTS, ANCHORS, FASTENING HARDWARE) SUBMERGED OR PARTIALLY SUBMERGED IN A PROCESS TANK SHALL BE CONSTRUCTED OF 316L SST. 3. VERIFY RESIN IS COMPATIBLE WITH THE CHEMICAL ENVIRONMENT. SEE SPECIFICATION 06 51 00 GLASS FIBER AND RESIN FABRICATION FOR FURTHER INFORMATION. 4. FOR ANCHORS EXPOSED TO SODIUM HYPOCHLORITE AND FERRIC CHLORIDE, TITANIUM ANCHORS MAY BE USED IN LIEU OF HASTELLOY C ANCHORS. FIBERGLASS FASTENERS MAY BE USED AS AN ALTERNATIVE TO HASTELLOY C ANCHORS PROVIDED ANCHOR STRENGTH CRITERIA CAN BE MET.						

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					PROJECT ENGINEER:	R. FROST
					DESIGNED BY:	R. FROST
					DRAWN BY:	B. CASULL
					CHECKED BY:	E. FELDMAN
					IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1" 
REV	ISSUED FOR	DATE	BY			

BID SET

Hazen

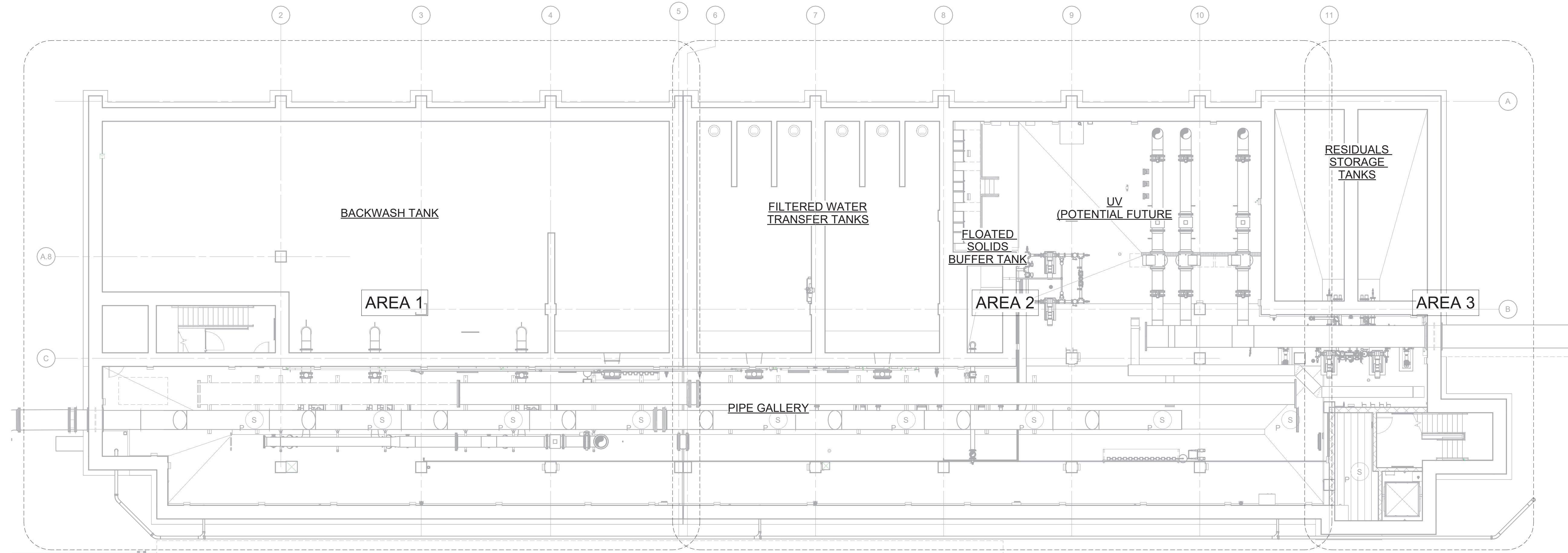
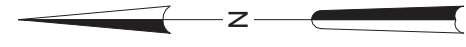
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NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY


GENERAL
PROCESS FLOW SCHEMATIC

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-011



GENERAL ARRANGEMENT PLAN EL 384.00

$$3/32'' = 1'-0''$$
$$3/32" = 1'-0"$$


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				DESIGNED BY:	R. FROST
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				CHECKED BY:	E. FELDMAN
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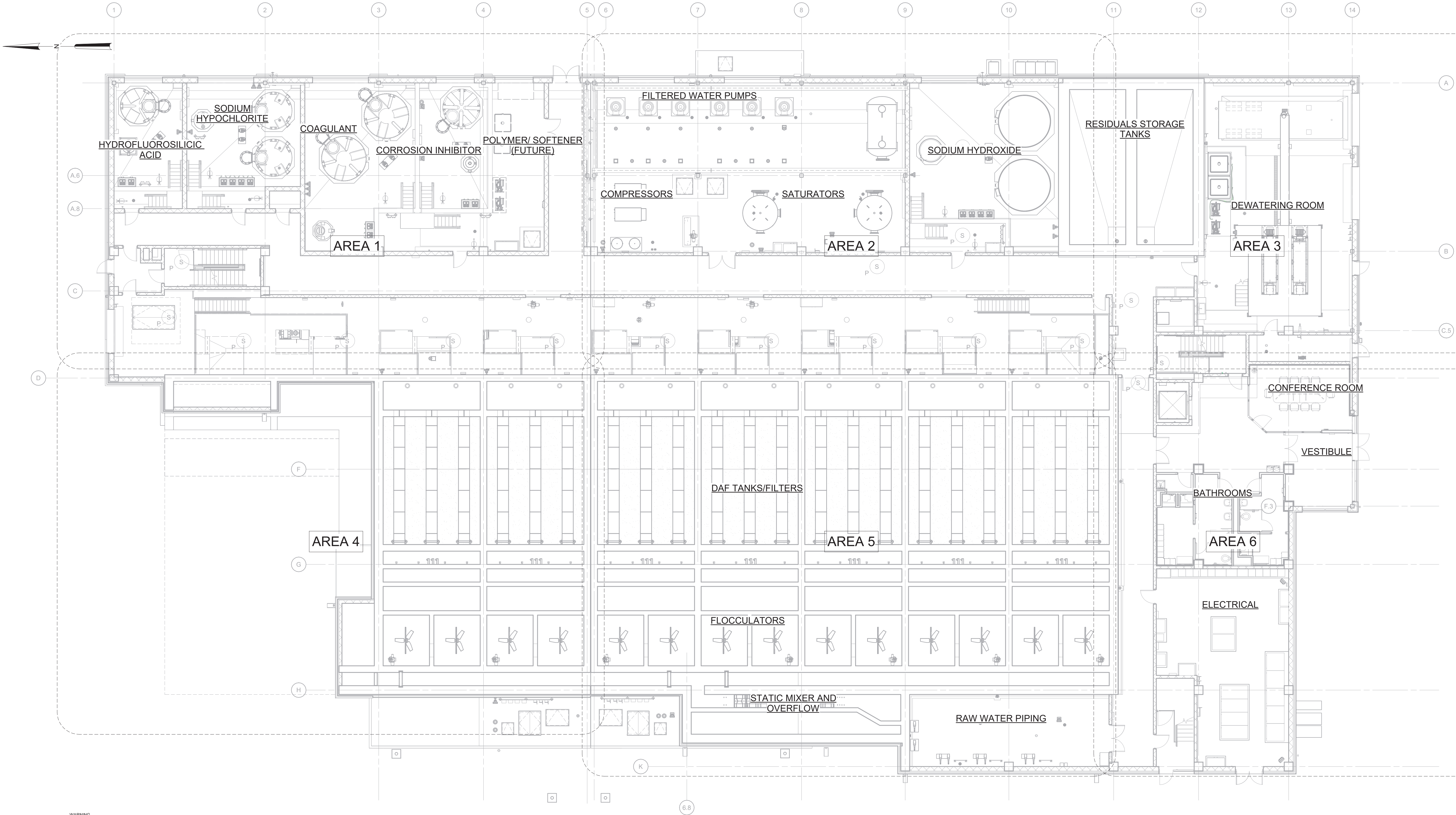
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NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

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GENERAL ARRANGEMENT PLAN EL 384.00

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-100



GENERAL ARRANGEMENT PLAN EL 407.00

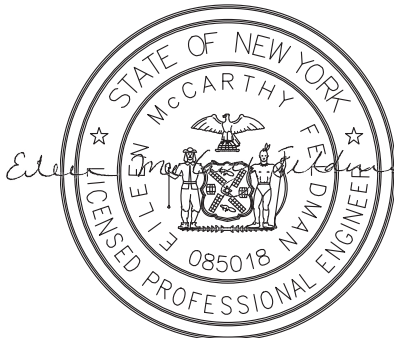


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DESIGNED BY:	R. FROST
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CHECKED BY:	E. FELDMAN
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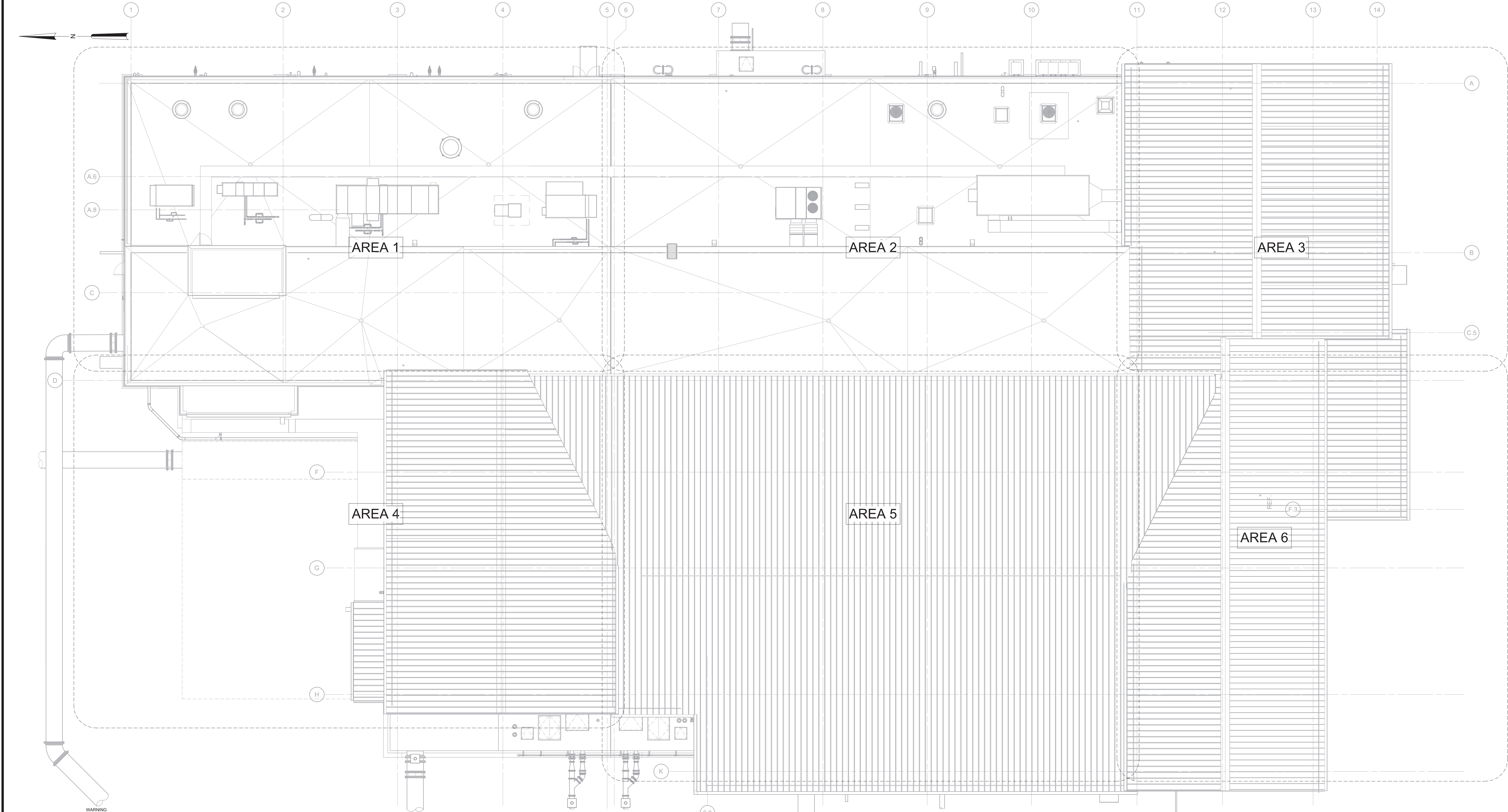
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RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

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GENERAL ARRANGEMENT PLAN EL 407.00

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-101

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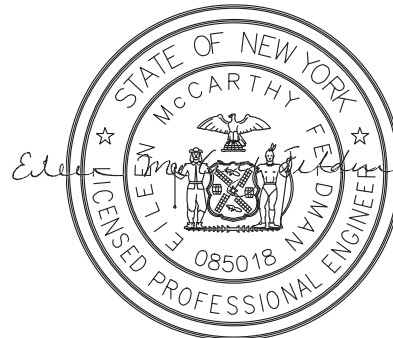


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REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	R. FROST
DESIGNED BY:	R. FROST
DRAWN BY:	B. CASULL
CHECKED BY:	E. FELDMAN
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MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

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CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-103